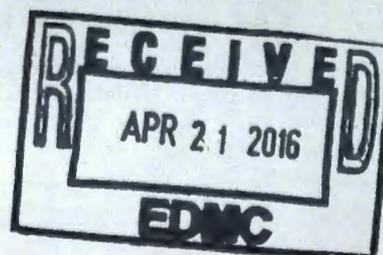


Final

Office of River Protection

Tri-Party Agreement
Monthly Summary Report
April 2016



Office of River Protection (ORP)
Tri-Party Agreement (TPA) Milestone Review
Project Earned Value Management System reflects February 2016 information

| Page | Topic | Leads |
|------|--|---|
| 2 | Administrative Items/Milestone Status | Bryan Trimberger/Dan McDonald/Jeff Lyon |
| 4 | System Plan | Kaylin Burnett/Jeff Lyon/Dan McDonald |
| 5 | Acquisition of New Facilities | Janet Diediker/Jeff Lyon/Dan McDonald |
| 6 | Supplemental Treatment and Part B Permit Applications | Steve Pfaff/Jeff Lyon/Dan McDonald |
| 8 | 242-A Evaporator Status | Paul Hernandez/Jeff Lyon |
| 9 | Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility | Richard Valle/ Stephanie Schleif |
| 10 | Tank System Update | Dusty Stewart /Jeff Lyon |
| 10 | Single-Shell Tank Integrity Assurance | Dusty Stewart / Jim Alzheimer |
| 12 | In Tank Characterization and Summary | Dusty Stewart/Michael Barnes |
| 14 | Tank Operations Contract Overview | ORP TPA Program Managers/Jeff Lyon |
| 24 | Single-Shell Tank Closure Program | Ryan Beach/Jeff Lyon |
| 27 | Single-Shell Tank Retrieval Program | Chris Kemp/Jeff Lyon |
| 29 | Tank Waste Retrieval Work Plan Status | Chris Kemp/Jeff Lyon |
| 30 | Tank in Appendix H, "Status - Single Shell Waste Retrieval Criteria" | Chris Kemp/Jeff Lyon |
| 30 | Tank Retrievals with Individual Milestones | Chris Kemp/Jeff Lyon |
| CD | Waste Treatment and Immobilization Plant (WTP) Overall TPA Summary and Milestone Status; see the U.S. Department of Energy, Office of River Protection Consent Decree 08-5085-FVS Monthly Summary Report for WTP Facility-specific information | Joni Grindstaff/Dan McDonald |

| |
|--|
| Administrative Items/Milestone Status |
|--|

| Milestone | Title | Due Date | Completion Date | Status |
|-------------------------|--|---|-----------------|-------------|
| Fiscal Year 2015 | | | | |
| M-062-45-T01 | Comp. Neg's 6-Mo After Last Issuance of System Plan | 04/30/2015 | | In Dispute |
| M-062-45-ZZ | Negotiate a One Time Supplemental Treatment Selection | 04/30/2015 | | In Dispute |
| M-062-45-ZZ-A | Convert M-062-31-T01 Thru M-062-34-T01 to Interim Milestones | 04/30/2015 | | In Dispute |
| M-045-92 | Barrier 3 Design/Monitoring Approval From Ecology | 06/30/2015 | | In Dispute |
| M-045-82 | Submit Comp. Permit Modification Request for Tiers 1,2,3 | 09/30/2015 | | In Dispute |
| M-045-91E1 | Provide SST Farms Dome Deflection Surveys Every Two Years. | 09/30/2015 | 9/21/15 | Complete |
| Fiscal Year 2016 | | | | |
| M-045-92N | Construct Barriers 1 and 2 in 241-SX Farm | 10/31/2015 | | In Dispute |
| M-062-01AF | Submit Semi-Annual Project Compliance Report | 01/31/2016 | 01/29/2016 | Complete |
| M-047-07 | CD-1 for Secondary Liquid Waste Treatment and CR for CD-2 to Ecology | 03/31/2016 | | In Dispute |
| M-090-13 | CD-1 for Interim Hanford Storage Project and CR for CD-2 to Ecology | 03/31/2016 | | In Dispute |
| M-062-31-T01 | Comp. Final Design & Submit RCRA Part B Permit Mod Request for Enhanced WTP & Supplemental Treatment | 04/30/2016 | | In Dispute |
| M-045-92Q | Submit Barrier 4 Design/Monitoring Plan | 06/30/2016 | | In Dispute |
| M-062-01AG | Submit Semi-Annual Project Compliance Report | 07/31/2016 | | On Schedule |
| M-045-56L | Ecology And DOE Agree, At A Minimum, To Meet Yearly (By July) | 07/31/2016 | | On Schedule |
| Fiscal Year 2017 | | | | |
| M-045-92P | Barrier 3 Construction Complete | 10/31/2016 | | In Dispute |
| M-062-40E | Select a Minimum of Three Scenario's | 10/31/2016 | | On Schedule |
| M-045-61A | Submit to Ecology a primary doc. Phase 2 CMS and Rev. O update to the RFI Report for WMA-C | 12/31/2016 | | On Schedule |
| M-045-62 | Phase 2 Corrective Measures Implementation Work Plan For WMA-C | Six months after CMS approval (M-045-61A) | | On Schedule |
| M-045-84 | Comp Neg's of HFFACO Interim Milestones for Closure of 2 nd SST WMA | 01/31/2017 | | At Risk |

| Milestone | Title | Due Date | Completion Date | Status |
|------------|--|------------|-----------------|-------------|
| M-062-01AH | Submit Semi-Annual Project Compliance Report | 01/31/2017 | | On Schedule |
| M-062-01AI | Submit Semi-Annual Project Compliance Report | 07/31/2017 | | On Schedule |
| M-045-91E2 | Provide SST Farms Dome Deflection Surveys' Every Two Years | 09/30/2017 | | On Schedule |
| | | | | |

CD-1/-2 = critical decision-1/-2.
 CMD = current measuring device.
 CMS = current measures study.
 CR = change request.
 DOE = U.S. Department of Energy.
 Ecology = Washington State Department of Ecology.
 HFFACO = Hanford Federal Facility Agreement and Consent Order.

RCRA = Resource Conservation and Recovery Act.
 RFI = RCRA Facility Investigation.
 SST = single-shell tank.
 TBD = to be determined.
 WTP = Waste Treatment and Immobilization Plant.
 WMA = Waste Management Area.

System Plan

Significant Past Accomplishments:

1. On October 24, 2013, Washington State Department of Ecology (Ecology) and U.S. Department of Energy (DOE), Office of River Protection (ORP) signed the Tri-Party Agreement (TPA) Change Control Form M-62-13-02, moving out the due date for this embedded milestone from October 31, 2013 to December 15, 2013, for selection of three, or more, scenarios to be modeled in the ORP-11242, *River Protection Project System Plan*, Rev. 7 (System Plan 7).
2. Ecology defined five scenarios to be analyzed in System Plan 7. Washington River Protection Solutions LLC (WRPS) included a description of each scenario in the *Selected Scenarios for the River Protection Project System Plan*, Rev. 7 document released to ORP on December 4, 2013. See joint ORP and Ecology letter 13-TPD-0070, "Completion of Hanford Federal Facility Agreement and Consent Order Milestone M-062-40C, to select a Minimum of Three Scenarios and Partial Completion of Milestone M-062-40," dated December 12, 2013, for completion and description of M-062-40C scenarios.
3. Detailed assumption review was completed and has been approved by Ecology.
4. On February 11, 2014, ORP transmitted a letter (14-TPD-0003, "Contract No. DE-AC27-08RV14800 – Approval to use Washington State Department of Ecology's Appendix B, "Key Assumptions and Success Criteria" for the ORP-11242, *River Protection Project System Plan*, Rev. 7") to WRPS in response to letter WRPS-1400313, "One System – Washington River Protection Solutions LLC Transmits to the U.S. Department of Energy, Office of River Protection for Approval, Appendix B Key Assumptions and Success Criteria for the River Protection Project System Plan, Revision 7, in Support of Contract Deliverable C.2.3.1 -1, River Protection Project System Plan," to approve the use of Ecology's Appendix B, "Key Assumptions and Success Criteria," for System Plan 7.
5. On February 13, 2014 Ecology presented the five selected scenarios to the Hanford Advisory Board Tank Waste Committee.
6. Ecology, ORP, and WRPS reviewed and provided comments for Sections 1.0 and 2.0 of System Plan 7 during the week of February 17, 2014.
7. Ecology, ORP and WRPS reviewed and provided comments for Section 3.0 of the System Plan 7 during the week of March 21, 2014.
8. Ecology, ORP and WRPS reviewed and provided comments for Appendix C, "Modeling Tools," of the System Plan 7 during the week of April 1, 2014.
9. During the week of April 28, 2014, WRPS and ORP facilitated meetings for Ecology to define detail spending assumptions for Case 5.
10. On July 29, 2014, WRPS case authors presented the results of the five cases to Ecology and ORP.
11. System Plan 7 was reviewed, all comments resolved, and comments incorporated into the document.

12. On October 31, 2014, ORP transmitted System Plan 7 to Ecology.
13. ORP received Ecology's January 14, 2015, transmitted letter 15-NWP-004, "Department of Ecology Review of the *River Protection Project System Plan*, ORP-11242, Revision 7," regarding Ecology's review of System Plan 7.
14. ORP met with Ecology at the Tank Farms TPA and Consent Decree (CD) monthly status meeting on February 25, 2015.
15. ORP transmitted letter 15-WSC-0027, "Washington State Department of Ecology Review of ORP-11242, *River Protection System Plan, Rev. 7*, 15-NWP-004, January 14, 2015," in response to Ecology's letter 15-NWP-004 to Ecology on June 2, 2015. ORP's letter provided clarification and several attachments of additional information requested in Ecology's January 14, 2015, letter.

Significant Planned Actions in the Next Six Months:

- Scenario selection discussions will be conducted to support M-062-40E, Due: October 31, 2016

Issues: None.

Acquisition of New Facilities

M-090-13, Submit Critical Decision-1 for Interim Hanford Storage Project and TPA Change Request for CD-2 to Ecology, Due: March 31, 2016, Status: In dispute. Change control form M-90-15-01 was submitted by ORP to Ecology for approval on December 30, 2015. This dispute has been extended to May 20, 2016.

M-090-00, Acquire/Modify Facilities for Storage of Immobilized High-Level Waste (IHLW), Due: December 31, 2019, Status: On schedule.

M-047-07, Submit CD-1 for Secondary Liquid Waste Treatment and Change Request (CR) for CD-2 to Ecology, Due: March 31, 2016, Status: In dispute. Change control form M-47-15-01 was submitted by ORP to Ecology for approval on December 30, 2015. This dispute has been extended to May 20, 2016.

M-047-00, Complete Work Necessary to Provide Facilities for Management of Secondary Waste from the Waste Treatment and Immobilization Plant (WTP), Due: December 31, 2022, Status: On schedule.

Significant Past Accomplishments: None.

Significant Planned Actions in the Next Six Months: None.

Issues: None.

Supplemental Treatment and Part B Permit Applications

M-062-45ZZ (designation for M-062-45 item 3), Negotiate a one-time supplemental treatment selection, Due: April 30, 2015, Status: In dispute.

M-062-45ZZ-A, Convert M-062-31-T01 through M-062-34-T01 to Interim Milestones, Due: April 30, 2015, Status: In dispute.

M-062-31-T01, Complete final design and submit Resource Conservation and Recovery Act Part B permit modification request, Due: April 30, 2016, Status: In dispute.

M-062-32-T01, Start construction of supplemental vitrification treatment facility and/or WTP enhancements, Due: April 30, 2018, Status: In dispute.

M-062-33-T01, Complete construction of supplemental vitrification treatment facility and/or WTP enhancements, Due: April 30, 2021, Status: In dispute.

M-062-45-T01, Every six years, within six months after last revision of the System Plan, negotiate tank waste retrieval sequencing, Due: April 30, 2015, Status: In Dispute.

M-062-45XX, No later than December 31, 2021, the DOE and Ecology shall complete negotiations to establish a mechanism that will apply to resolve future disputes regarding the determinations in M-062-45, paragraphs 4 and 5, Due: December 31, 2021, Status: On schedule.

M-062-34-T01, Complete hot commissioning of supplemental vitrification treatment facility and/or WTP enhancements, Due: December 30, 2022, Status: In dispute.

M-062-21, Annually submit data that demonstrates operation of the WTP, Due: February 28, 2023, Status: On schedule.

M-062-00, Complete Pretreatment Processing and Vitrification of High-Level Waste and LAW Tank Wastes, Due: December 31, 2047, Status: On schedule.

Significant Past Accomplishments:

*Per ORP letter 14-TF-0052, "Documentation of U.S. Department of Energy, Office of River Protection and Washington State Department of Ecology Agreement that the Office of River Protection will not Submit A One-Time Hanford Tank Waste Supplemental Treatment Technologies Report," signed by ORP on May 6, 2014, and provided to Ecology on May 7, 2014, ORP documented the ORP/Ecology discussions for the *One-Time Hanford Tank Waste Supplemental Treatment Technologies Report* and that ORP does not intend to submit this report. ORP received Ecology's response letter, 14-NWP-110, "Acknowledgement that the U.S. Department of Energy, Office of River Protection Will Not Submit a One-Time Supplemental Treatment Technologies Report," on May 29, 2014. ORP letter 14-TF-0088, "Hanford Federal Facilities Agreement and Consent Order Class II Change Request for Deletion

of Tri-Party Agreement Milestone M-062-40ZZ, *One-Time Hanford Tank Waste Supplemental Treatment Technologies Report*,” dated and delivered to Ecology on July 31, 2014, submitted a signed TPA change package to delete the requirement of the *One-Time Hanford Tank Waste Supplemental Treatment Technologies Report* from TPA Milestone M-062-40. Ecology signed TPA Change Package M-62-14-01 deleting M-062-40ZZ on August 12, 2014.

Significant Planned Actions in the Next Six Months: None.

Issues:

On January 30, 2015, ORP provided Ecology Change Control Form M-62-14-02, which proposed adding language under TPA Milestone M-062-45 to defer negotiations required under M-062-45. Ecology did not respond with the 14-day review period that ended February 13, 2015 which is deemed disapproval in accordance with the TPA. In letter 15-TF-0014, “Initiation of Dispute Resolution Regarding Disapproval of Hanford Federal Facility Agreement and Consent Order Change Control Form M-62-14-02,” dated February 20, 2015, ORP initiated a dispute resolution. Ecology provided a justification for their disapproval on March 12, 2015 via letter 15-NWP-036, “Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Change Package, Change Number M-62-14-02, dated 01/30/2015.” Ecology and ORP signed an extension of the dispute resolution period at the TPA project manager level until May 20, 2016.

242-A Evaporator Status

(previously reported under Milestone M-48, which has been closed out)

The 242-A Evaporator campaign strategy for fiscal year (FY) 2015 through fourth quarter of FY 2016 depicted in the following table:

| Fiscal Year | Campaign No. | Feed Source | Slurry Tank | Comments |
|-------------|--------------|------------------|-------------|---|
| FY 2015 | EC-01 | AP-103 AP-104 | AP-107 | Campaign and flush activities completed on June 21, 2015. |
| FY 2015 | EC-02 | AZ-102 | AP-103 | Completed July 21, 2015. |
| FY 2015 | EC-03 | AZ-102 | AP-103 | Completed September 25, 2015. |
| FY 2016 | EC-04 | AP-104 | AP-103 | Estimated to begin third quarter FY 2016. |
| FY 2016 | EC-05 | AP-104 | AP-104 | Estimated to begin third quarter FY 2016. |
| FY 2016 | EC-06 | AY-101 | AP-104 | Estimated to begin fourth quarter FY 2016. |

FY = fiscal year.

Significant Planned Actions in the Next Six Months:

- Future campaign and outage scheduling
- 242-A Evaporator instrument calibrations and preventive maintenance
- Electrical preventative maintenance activities in 241-AW and 242-A
- Control room upgrades at 242-A Evaporator

Issues: None.

Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility

Status:

The Liquid Effluent Retention Facility (LERF) liquid levels, inventory, and received waste is shown in the table below for the time period of March 1 through 31, 2016.

Note: Volumes in this table are estimated. Tanker shipment volumes are estimated by multiplying the number of shipments by the capacity of the tanker being used.

| | 242AL-42 (Basin 42) | 242AL-43 (Basin 43) | 242AL-44 (Basin 44) |
|---------------------------------------|------------------------|------------------------|------------------------|
| Volume (as of 03/31/16) | ~4.89 Mgal | ~7.15 Mgal | ~6.68 Mgal |
| AZ-301 Tanker Shipments | - | - | - |
| MWBT-31 and 34 Leachate | - | - | ~70,000 gal |
| Perched Water Tanker Shipments | - | - | - |
| ERDF Leachate Transfers | - | 279,000 gal | - |
| ERDF Leachate Tanker Shipments | | | ~21000 gal |
| Other (325 Building Totes) | - | | ~1300 gal- |

ERDF = Environmental Restoration Disposal Facility.
Gal = gallon.
Mgal = million gallons.
MWBT = mixed waste burial trench.

Significant Planned Actions in the Next Six Months:

- Staff training, component and system testing, and readiness activities for Effluent Treatment Facility (ETF) are ongoing and expected to be completed in third quarter of FY 2016.
- Berm special protective coating of specific areas at ETF and LERF are ongoing and expected to be completed in third quarter of FY 2016.
- Hanford Dangerous Waste Permit 8C, Operation Unit Group -3, class 1 prime modifications package submittal in third quarter.
- Processing waste from LERF through ETF scheduled for third and fourth quarters of FY 2016.

Issues: None.

Tank System Update

Significant Planned Actions in FY 2016:

~~Strikethrough~~ means completed to date

Double Shell Tank (DST) Integrity

- Enhanced annulus video inspection:
 - ~~— 241-AN-101 (complete)~~
 - 241-AN-103
 - 241-AN-104
 - 241-AN-105
 - 241-AN-106
 - 241-AW-103
 - 241-AW-106
 - 241-SY-101
 - 241-SY-102
 - 241-SY-103
- Ultrasonic testing (UT) inspections (two risers for primary wall/welds, one riser for secondary floor):
 - 241-AN-105 (this inspection is in process, finish date May 5, 2016)
 - 241-AW-103
- Continuing bi-weekly inspections of AY-102 waste accumulation site
- Continuing bi-monthly comprehensive inspection of AY-102 annulus
- Revise and update RPP-7574, *Double-Shell Tank Integrity Project Plan*
- Released the DST independent qualified registered professional engineer (IQRPE) integrity assessment report (RPP-RPT-58441) per WAC 173-303-640(2), "Tank systems".

Single Shell Tanks (SST) Integrity

- In-tank video inspections:
 - ~~— 241-T-107 (complete)~~
 - ~~— 241-T-110 (complete)~~
 - 241-TX-103
 - 241-TX-111
 - 241-TX-113
 - 241-TX-116
 - ~~— 241-B-101 (complete)~~
 - ~~— 241-B-201 (complete)~~
 - 241-BY-105
 - 241-U-102
 - 241-U-105
 - 241-U-107.

- Intrusions mitigation (M45-56):

- Complete 241-T-111

NOTE: In the 2015 Annual Meeting between ORP and Ecology to discuss interim measures a commitment was made to provide a report evaluating T-111 ventilation system performance at the end of system operation with a due date of April 30, 2016. The T-111 exhauster continues to work and is not at the end of system operation. Therefore, it is recommended that a discussion be had between the program managers for ORP and Ecology to work together to obtain a new due date for the submittal of the April 30, 2016 report. Navigate to the meeting notes for the 2015 annual meeting using the following link, <http://pdw.hanford.gov/arpir/index.cfm/viewDoc?accession=0080444H> Scroll to page 3 of the document, number 4 of the "Actions Proposed for FY 2016".

- Work is initiated on subsequent tank 241-T-112

Single-Shell Tank Integrity Assurance

M-045-91I, Provide to Ecology an Independent, Qualified, Registered Professional Engineer (IQRPE) certification of single-shell tanks (SST) structural integrity for the remainder of the mission, or for such time as the IQRPE believes he/she can reasonably certify, Due: September 30, 2018, Status: On schedule.

Significant Past Accomplishments: None

Significant Planned Actions in the Next Six Months:

- Continue planning for the SST integrity assessment by an IQRPE (M-045-91I).

Issues: None.

In Tank Characterization and Summary

For the period from March 1 through March 31, 2016:

Accomplishments:

- Completed RPP-RPT-49876, *Derivation of Best-Basis Inventory for Tank 241-C-110 as of January 1, 2016, Rev 3.*
- Completed RPP-RPT-44814, *Derivation of Best-Basis Inventory for Tank 241-AN-101 as of January 1, 2016, Rev 20.*
- Completed RPP-RPT-59035, *Derivation of Best-Basis Inventory for Tank 241-B-105 as of January 1, 2016, Rev 0.*
- Completed RPP-RPT-59036, *Derivation of Best-Basis Inventory for Tank 241-B-110 as of January 1, 2016, Rev 0.*
- Completed RPP-RPT-58857, *Derivation of Best-Basis Inventory for Tank 241-A-104 as of February 1, 2016, Rev 1.*
- Completed RPP-RPT-59037, *Derivation of Best-Basis Inventory for Tank 241-B-112 as of January 1, 2016, Rev 0.*
- Completed RPP-RPT-58699, *Derivation of Best-Basis Inventory for Tank 241-TX-108 as of October 1, 2015, Rev 1.*
- Completed RPP-RPT-44752, *Derivation of Best-Basis Inventory for Tank 241-BY-103 as of January 1, 2016, Rev 2.*
- Completed RPP-RPT-48103, *Derivation of Best-Basis Inventory for Tank 241-AP-107 as of February 1, 2016, Rev 7.*
- Completed RPP-RPT-57458, *Derivation of Best-Basis Inventory for Tank 241-C-102 as of January 1, 2016, Rev 5.*
- Completed RPP-RPT-56866, *Derivation of Best-Basis Inventory for Tank 241-A-103 as of January 1, 2016, Rev 1.*
- Completed RPP-RPT-58447, *Derivation of Best-Basis Inventory for Tank 241-A-102 as of March 1, 2016, Rev 1.*
- Completed RPP-RPT-44643, *Derivation of Best-Basis Inventory for Tank 241-SY-102 as of January 1, 2016, Rev 5.*
- Completed RPP-PLAN-60723, *Sampling and Analysis Plan for the Effluent Treatment Facility, Liquid Effluent Retention Facility, and Treated Effluent Disposal Facility, Rev 0.*
- Completed RPP-19849, *Sampling and Analysis Plan for Evaporator Slurry, Rev 5.*
- Completed RPP-PLAN-575353, *Sampling and Analysis Plan for 242-A Evaporator Process Condensate, Rev 3.*
- Completed HNF-EP-0182, *Waste Tank Summary Report for Month Ending January 31, 2015, Rev 337.*
- Completed RPP-CALC-60803, *242-A Evaporator Campaign EC-04 Process Control Plan Calculations, Rev 0.*

- Completed RPP-CALC-60596, *Tank 241-AP-107 FY16 Q2 Process Knowledge Concentration Vector Calculations*, Rev 2.
- RPP-RPT-59189, *Final Analytical Report for Tank 241-AP-104 Grab Samples in Support of Evaporator Campaigns EC-04 and EC-05*, Rev 0, was released.
- RPP-RPT-59213, *Final Report for AZ-301 Catch Tank Liquid Samples, January 2016*, Rev 0, was released.
- Completed 241-C-102 ERSS/clam shell sampling March 16, 2016. Three samples were received at the laboratory.
- Completed 241-AY-101 grab sampling March 31, 2016. Thirteen samples were received at the laboratory.

Planned Action within the Next Six Months:

Tank sampling:

- Tank 241-AP-107 core sampling is planned to begin April 2016.
- Tank 241-AP-107 grab sampling is planned to begin April 2016
- Tank 241-AP-102 grab sampling in support of AY-102 retrieval is planned for June 2016.
- Tank 241-AN-101 grab sampling at completion of C-111 hard heel retrieval is planned for July 2016.
- Tank 241-C-111 Off-Riser Sampling System (ORSS) closure sampling is planned for July 2016.
- Tank 241-AW-103 grab sampling is planned for August 2016.

Best-Basis Inventory (BBI) updates:

BBI updates for the following tanks were completed in March 2016:

- | | | |
|-------------|--------------|--------------|
| • 241-A-102 | • 241-B-112 | • 241-C-102 |
| • 241-A-103 | • 241-AN-101 | • 241-C-110 |
| • 241-A-104 | • 241-AP-107 | • 241-SY-102 |
| • 241-B-105 | • 241-BY-103 | • 241-TX-108 |
| • 241-B-110 | | |

BBI updates for the following tanks currently are planned to be completed in April 2016:

- | | | |
|--------------|-------------|--------------|
| • 241-AZ-102 | • 241-S-111 | • 241-SX-106 |
|--------------|-------------|--------------|

Data Quality Objectives (DQO):

- RPP-8532, *Double-Shell Tanks Chemistry Control Data Quality Objectives*, Rev 15, is in-process to identify additional analyses for corrosion mitigation and to simplify quality control parameters is planned to be released in April 2016.

Issues: None

Tank Operations Contract Overview

Project Performance

The earned value performance reporting reflects the format, work breakdown structure reporting levels, and variance thresholds as agreed to with the Tank Operations Contractor (TOC) for monthly performance reporting. The earned value analysis is not intended to be a measurement of performance against existing TPA milestones.

| February-16 | | | | | | | | | | |
|-------------|-----------|-----------|-----------|----------|----------|------|------|-----------|-----------|----------|
| | BCWS | BCWP | ACWP | SV | CV | SPI | CPI | BAC | EAC | VAC |
| CM | 44,951 | 42,790 | 47,389 | (2,161) | (4,598) | 0.95 | 0.90 | | | |
| FYTD | 200,498 | 190,963 | 202,058 | (9,535) | (11,095) | 0.95 | 0.95 | 556,261 | | |
| CTD | 3,051,338 | 3,022,216 | 3,026,736 | (29,122) | (4,520) | 0.99 | 1.00 | 3,419,281 | 3,443,828 | (24,548) |

- ACWP = actual cost of work performed.
- BAC = budget at completion.
- BCWP = budgeted cost of work performed.
- BCWS = budgeted cost of work scheduled.
- CM = current month
- CPI = cost performance index.
- CTD = contract to date

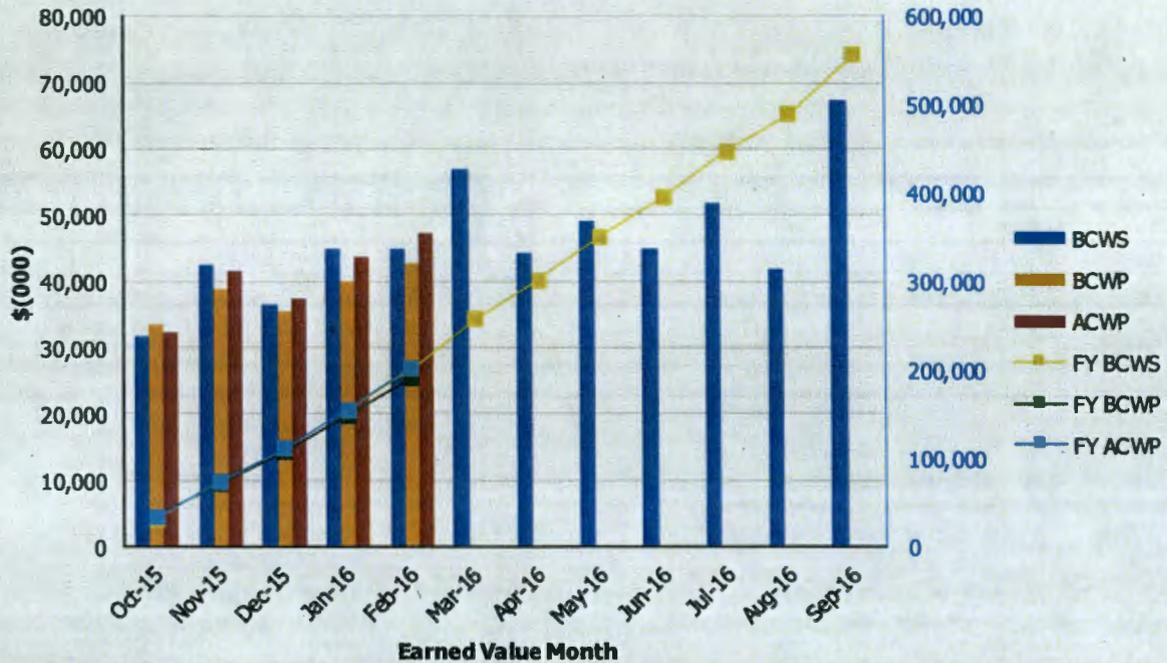
- CV = cost variance.
- EAC = estimate at completion.
- FYTD = fiscal year to date
- SPI = schedule performance index.
- SV = schedule variance.
- VAC = variance at completion.

Earned Value Data: Fiscal Year 2016

February-16

Tank Farms ORP-0014

EVMS Monthly and Fiscal Year Values



| Earned Value Month | BCWS | BCWP | ACWP | SPI | CPI | FY BCWS | FY BCWP | FY ACWP | FY SPI | FY CPI |
|--------------------|--------------------|--------------------|--------------------|-------------|-------------|-----------|-----------|-----------|--------|--------|
| Oct 2015 | \$31,724 | \$33,377 | \$32,188 | 1.05 | 1.04 | \$31,724 | \$33,377 | \$32,188 | 1.05 | 1.04 |
| Nov 2015 | \$42,325 | \$38,998 | \$41,461 | 0.92 | 0.94 | \$74,049 | \$72,376 | \$73,649 | 0.98 | 0.98 |
| Dec 2015 | \$36,530 | \$35,614 | \$37,416 | 0.97 | 0.95 | \$110,579 | \$107,990 | \$111,065 | 0.98 | 0.97 |
| Jan 2016 | \$44,968 | \$40,183 | \$43,604 | 0.89 | 0.92 | \$155,547 | \$148,173 | \$154,669 | 0.95 | 0.96 |
| Feb 2016 | \$44,951 | \$42,790 | \$47,389 | 0.95 | 0.90 | \$200,498 | \$190,963 | \$202,058 | 0.95 | 0.95 |
| Mar 2016 | \$56,813 | | | | | \$257,311 | | | | |
| Apr 2016 | \$44,225 | | | | | \$301,536 | | | | |
| May 2016 | \$49,019 | | | | | \$350,556 | | | | |
| Jun 2016 | \$44,835 | | | | | \$395,390 | | | | |
| Jul 2016 | \$51,866 | | | | | \$447,256 | | | | |
| Aug 2016 | \$41,829 | | | | | \$489,086 | | | | |
| Sep 2016 | \$67,175 | | | | | \$556,261 | | | | |
| CTD | \$3,051,338 | \$3,022,216 | \$3,026,736 | 0.99 | 1.00 | | | | | |

ACWP = actual cost of work performed.
 BCWP = budgeted cost of work performed.
 BCWS = budgeted cost of work scheduled.
 CPI = cost performance index.

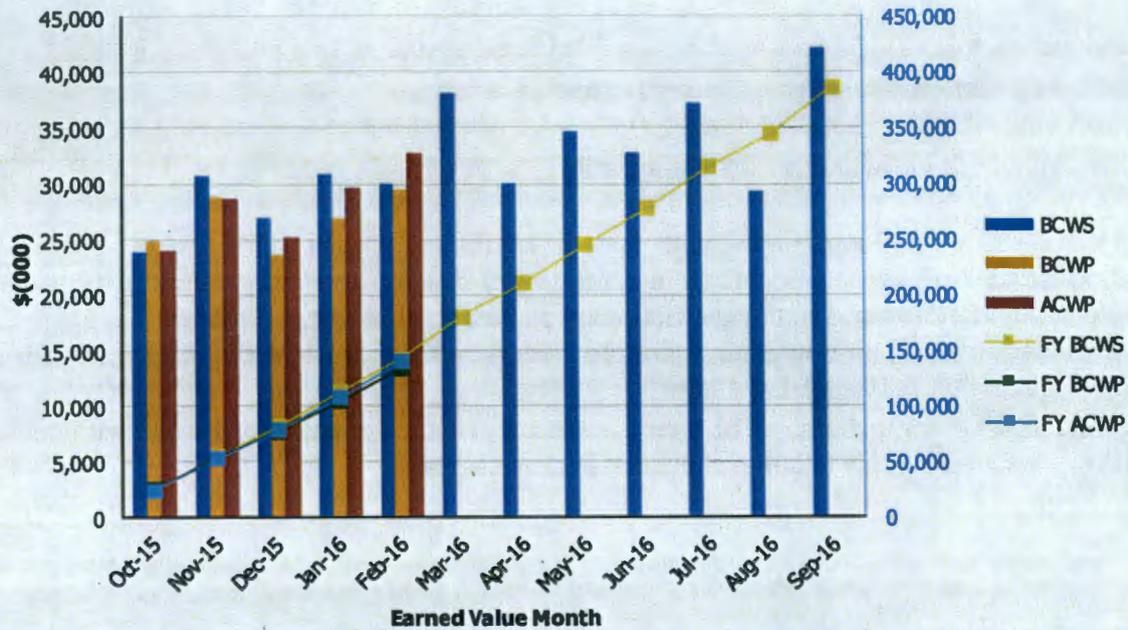
CTD = contract to date
 EVMS = Earned Value Management System.
 FY = fiscal year.
 SPI = schedule performance index

Earned Value Data: Fiscal Year 2016

February-16

**Tank Farms ORP-0014
Base Operations 5.01**

EVMS Monthly and Fiscal Year Values



| Earned Value Month | BCWS | BCWP | ACWP | SPI | CPI | FY BCWS | FY BCWP | FY ACWP | FY SPI | FY CPI |
|--------------------|----------|----------|----------|------|------|-----------|-----------|-----------|--------|--------|
| Oct 2015 | \$23,768 | \$24,839 | \$24,025 | 1.05 | 1.03 | \$23,768 | \$24,839 | \$24,025 | 1.05 | 1.03 |
| Nov 2015 | \$30,658 | \$28,752 | \$28,562 | 0.94 | 1.01 | \$54,426 | \$53,592 | \$52,587 | 0.98 | 1.02 |
| Dec 2015 | \$26,911 | \$23,637 | \$25,173 | 0.88 | 0.94 | \$81,336 | \$77,229 | \$77,760 | 0.95 | 0.99 |
| Jan 2016 | \$30,829 | \$26,913 | \$29,740 | 0.87 | 0.90 | \$112,165 | \$104,142 | \$107,500 | 0.93 | 0.97 |
| Feb 2016 | \$29,963 | \$29,524 | \$32,689 | 0.99 | 0.90 | \$142,128 | \$133,666 | \$140,189 | 0.94 | 0.95 |
| Mar 2016 | \$38,132 | | | | | \$180,260 | | | | |
| Apr 2016 | \$29,930 | | | | | \$210,190 | | | | |
| May 2016 | \$34,689 | | | | | \$244,879 | | | | |
| Jun 2016 | \$32,729 | | | | | \$277,609 | | | | |
| Jul 2016 | \$37,169 | | | | | \$314,778 | | | | |
| Aug 2016 | \$29,277 | | | | | \$344,055 | | | | |
| Sep 2016 | \$42,255 | | | | | \$386,310 | | | | |

| | | | | | |
|-----|-------------|-------------|-------------|------|------|
| CTD | \$2,034,012 | \$2,015,879 | \$2,014,018 | 0.99 | 1.00 |
|-----|-------------|-------------|-------------|------|------|

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 SPI = schedule performance index

Base Operations and Tank Farm Projects

The current month unfavorable schedule variance (SV) of **(\$438K)** is due to:

- AY-102 Tie-In to portable exhauster (POR)-127 - Procuring materials and fabrication did not progress as planned due to construction crews working to complete construction activities and testing for AY-102 and AP-102 waste retrieval system. This will delay POR-127 installation activities, with completion expected in in June.

The current month unfavorable cost variance (CV) of **(\$3,165K)** is due to:

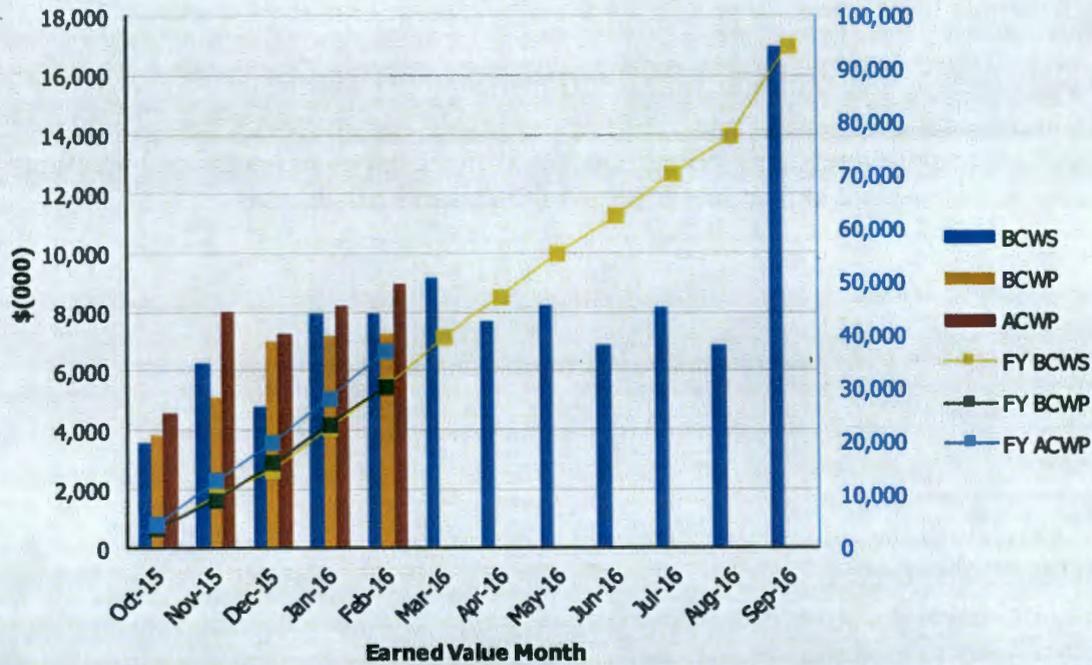
- AY-102 and AP-102 equipment installation – WRPS and American Electric Inc continued to accelerate schedule recovery (at an increased cost) through overtime, weekend shifts and allocating more resources to construction crews to complete testing, continue recirculation/ventilation upgrades, complete inter-farm lighting and electrical transformer tie-ins to support AY-102 retrieval efforts.
- Production Operations Support Services continues to have impacts associated with additional labor and subcontracts to support the mask issue stations.

Earned Value Data: Fiscal Year 2016

February-16

Tank Farms ORP-0014
Retrieve and Close SST's 5.02

EVMS Monthly and Fiscal Year Values



| Earned Value Month | BCWS | BCWP | ACWP | SPI | CPI | FY BCWS | FY BCWP | FY ACWP | FY SPI | FY CPI |
|--------------------|----------|---------|---------|------|------|----------|----------|----------|--------|--------|
| Oct 2015 | \$3,557 | \$3,814 | \$4,560 | 1.07 | 0.84 | \$3,557 | \$3,814 | \$4,560 | 1.07 | 0.84 |
| Nov 2015 | \$6,282 | \$5,131 | \$8,006 | 0.82 | 0.64 | \$9,839 | \$8,946 | \$12,566 | 0.91 | 0.71 |
| Dec 2015 | \$4,769 | \$6,970 | \$7,255 | 1.46 | 0.96 | \$14,608 | \$15,915 | \$19,821 | 1.09 | 0.80 |
| Jan 2016 | \$7,914 | \$7,214 | \$8,233 | 0.91 | 0.88 | \$22,522 | \$23,130 | \$28,053 | 1.03 | 0.82 |
| Feb 2016 | \$7,948 | \$7,288 | \$8,959 | 0.92 | 0.81 | \$30,470 | \$30,417 | \$37,012 | 1.00 | 0.82 |
| Mar 2016 | \$9,130 | | | | | \$39,600 | | | | |
| Apr 2016 | \$7,648 | | | | | \$47,248 | | | | |
| May 2016 | \$8,210 | | | | | \$55,458 | | | | |
| Jun 2016 | \$6,890 | | | | | \$62,348 | | | | |
| Jul 2016 | \$8,126 | | | | | \$70,474 | | | | |
| Aug 2016 | \$6,834 | | | | | \$77,307 | | | | |
| Sep 2016 | \$16,966 | | | | | \$94,273 | | | | |

| | | | | | |
|-----|-----------|-----------|-----------|------|------|
| CTD | \$622,948 | \$615,644 | \$646,984 | 0.99 | 0.95 |
|-----|-----------|-----------|-----------|------|------|

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Retrieve and Close Single Shell Tanks

The current month unfavorable schedule variance (SV) of **(\$660K)** is due to:

- AX Farm procurements (extended reach sluicer system [ERSS], demister water supply) were re-prioritized due to funding/budget constraints related to higher tank farm priorities (AY-102, C-105 and C-111). Material and equipment were re-sequenced based on priority, lead time and field installation.

The current month unfavorable cost variance (CV) of **(\$1,671K)** is due to:

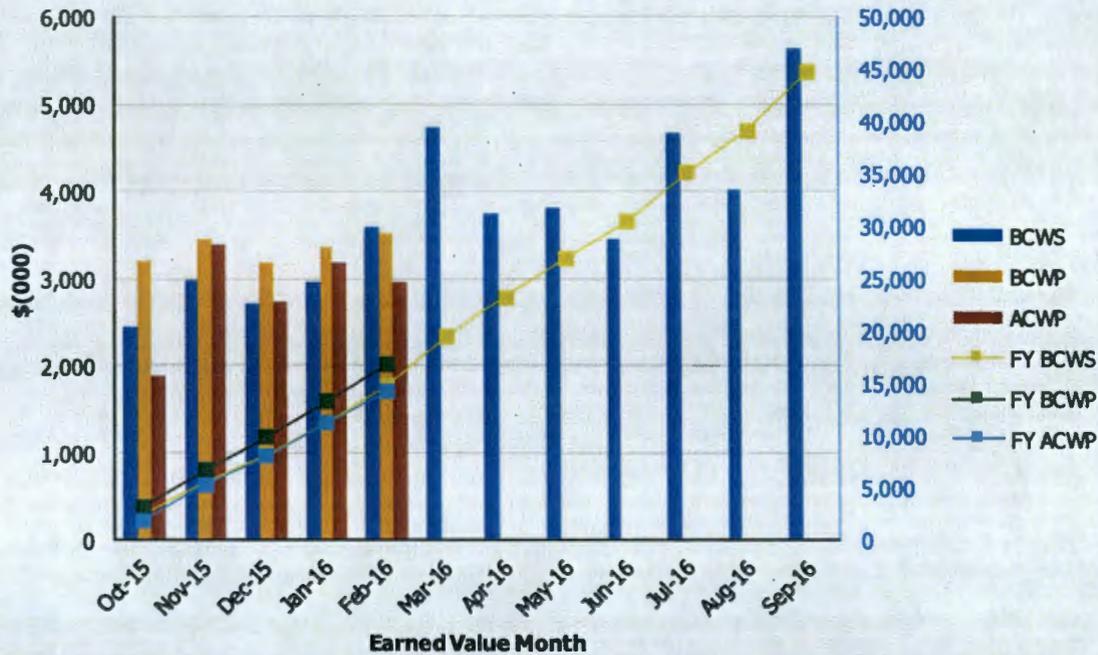
- Additional duration and resources have been required to complete AX Farm ventilation installation activities due to impacts associated with the use of self-contained breathing apparatus (SCBA) and higher than expected soil contamination levels.

Earned Value Data: Fiscal Year 2016

February-16

Tank Farms ORP-0014
Waste Feed Delivery/Treatment/Double-Shell Tank Retrieval Closure 5.03

EVMS Monthly and Fiscal Year Values



| Earned Value Month | BCWS | BCWP | ACWP | SPI | CPI | FY BCWS | FY BCWP | FY ACWP | FY SPI | FY CPI |
|--------------------|------------------|------------------|------------------|-------------|-------------|----------|----------|----------|--------|--------|
| Oct 2015 | \$2,434 | \$3,210 | \$1,876 | 1.32 | 1.71 | \$2,434 | \$3,210 | \$1,876 | 1.32 | 1.71 |
| Nov 2015 | \$2,987 | \$3,446 | \$3,379 | 1.15 | 1.02 | \$5,421 | \$6,656 | \$5,255 | 1.23 | 1.27 |
| Dec 2015 | \$2,714 | \$3,193 | \$2,743 | 1.18 | 1.16 | \$8,134 | \$9,849 | \$7,998 | 1.21 | 1.23 |
| Jan 2016 | \$2,966 | \$3,366 | \$3,180 | 1.13 | 1.06 | \$11,101 | \$13,215 | \$11,178 | 1.19 | 1.18 |
| Feb 2016 | \$3,583 | \$3,518 | \$2,966 | 0.98 | 1.19 | \$14,683 | \$16,733 | \$14,144 | 1.14 | 1.18 |
| Mar 2016 | \$4,740 | | | | | \$19,424 | | | | |
| Apr 2016 | \$3,751 | | | | | \$23,174 | | | | |
| May 2016 | \$3,809 | | | | | \$26,983 | | | | |
| Jun 2016 | \$3,454 | | | | | \$30,437 | | | | |
| Jul 2016 | \$4,666 | | | | | \$35,103 | | | | |
| Aug 2016 | \$4,012 | | | | | \$39,115 | | | | |
| Sep 2016 | \$5,629 | | | | | \$44,744 | | | | |
| CTD | \$343,355 | \$343,009 | \$319,227 | 1.00 | 1.07 | | | | | |

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 CPI = cost performance index.

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 FY = fiscal year.
 SPI = schedule performance index

Waste Feed Delivery/Treatment/Double-Shell Tank Retrieval Closure

The current month unfavorable schedule variance (SV) of **(\$65K)** is below the reporting threshold and does not require a variance narrative.

The current month favorable cost variance (CV) of \$552K is due to:

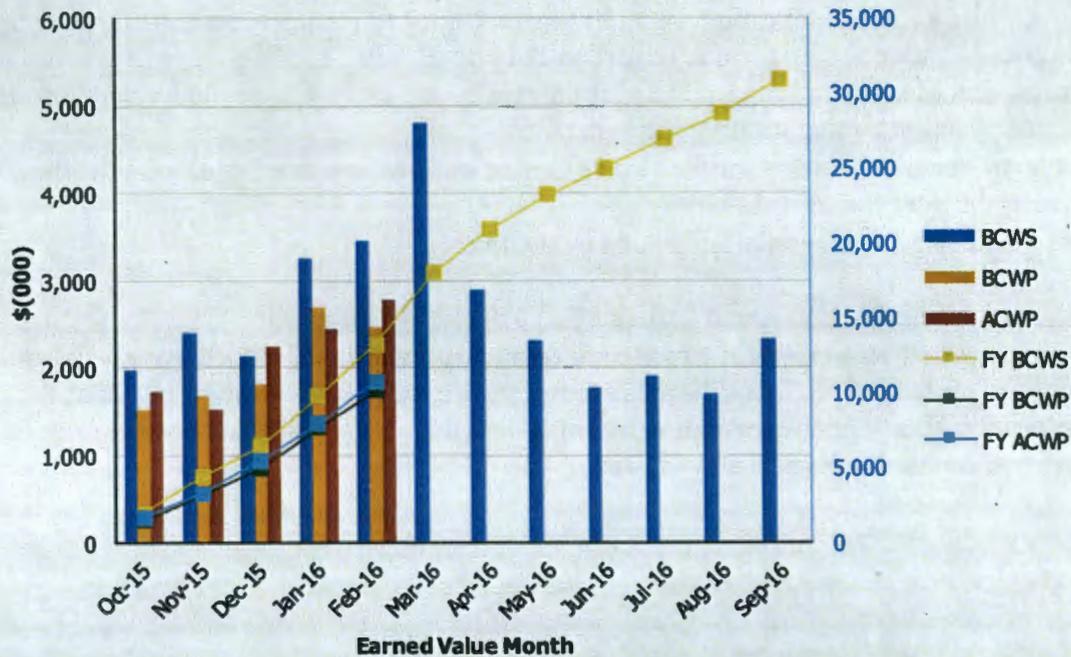
- A result of the subcontracts being awarded for less than what was originally planned.

Earned Value Data: Fiscal Year 2016

February-16

**Tank Farms ORP-0014
Treat Waste 5.5**

EVMS Monthly and Fiscal Year Values



| Earned Value Month | BCWS | BCWP | ACWP | SPI | CPI | FY BCWS | FY BCWP | FY ACWP | FY SPI | FY CPI |
|--------------------|---------|---------|---------|------|------|----------|----------|----------|--------|--------|
| Oct 2015 | \$1,965 | \$1,513 | \$1,735 | 0.77 | 0.87 | \$1,965 | \$1,513 | \$1,735 | 0.77 | 0.87 |
| Nov 2015 | \$2,399 | \$1,669 | \$1,517 | 0.70 | 1.10 | \$4,364 | \$3,182 | \$3,252 | 0.73 | 0.98 |
| Dec 2015 | \$2,137 | \$1,814 | \$2,245 | 0.85 | 0.81 | \$6,501 | \$4,996 | \$5,497 | 0.77 | 0.91 |
| Jan 2016 | \$3,258 | \$2,691 | \$2,451 | 0.83 | 1.10 | \$9,759 | \$7,687 | \$7,948 | 0.79 | 0.97 |
| Feb 2016 | \$3,458 | \$2,460 | \$2,775 | 0.71 | 0.89 | \$13,217 | \$10,147 | \$10,723 | 0.77 | 0.95 |
| Mar 2016 | \$4,812 | | | | | \$18,028 | | | | |
| Apr 2016 | \$2,896 | | | | | \$20,924 | | | | |
| May 2016 | \$2,312 | | | | | \$23,236 | | | | |
| Jun 2016 | \$1,761 | | | | | \$24,997 | | | | |
| Jul 2016 | \$1,905 | | | | | \$26,902 | | | | |
| Aug 2016 | \$1,706 | | | | | \$28,608 | | | | |
| Sep 2016 | \$2,326 | | | | | \$30,934 | | | | |

| | | | | | |
|-----|----------|----------|----------|------|------|
| CTD | \$30,913 | \$27,574 | \$27,345 | 0.89 | 1.01 |
|-----|----------|----------|----------|------|------|

ACWP = actual cost of work performed.
 BCWP = budgeted cost of work performed.
 BCWS = budgeted cost of work scheduled.
 CPI = cost performance index.

CTD = contract to date
 EVMS = Earned Value Management System.
 FY = fiscal year.
 SPI = schedule performance index.

Treat Waste

The current month unfavorable schedule variance (SV) of **(\$998K)** is due to:

- The delays in the procurement of resin for the integrated test. The Microbead Resin manufacturer was unable to produce the needed resin due to previously scheduled production runs. Resin has been acquired from another ORP contract, and was transferred to the project in the previous reporting period.
- Gas retention and release testing has not progressed due to technical issues contributing to the schedule variance. This is due to difficulty in developing a methodology to create hydrogen bubbles in the scoping tests. Bubbles were created using air under vacuum. But, this has not been deemed totally prototypic.
- The electrochemical testing for the "Filter Corrosion Test" required additional testing, which extended the duration of this activity.
- Delays resulting from ventilation design evaluations.

The current month unfavorable cost variance (CV) of **(\$315K)** is due to:

- The primary cost variance is due to the hazards and operability (HAZOP) analysis, and ventilation system issues. Additional resources were required support operations and maintenance (O&M) development work for the model review sessions, drawing review support, and initial design reviews (IDRs).

Single-Shell Tank Closure Program

M-045-00, Complete closure of all SST farms, Due: January 31, 2043, Status: On schedule.

M-045-56K, Complete Implementation of Agreed to Interim Measures, Due: July 31, 2015, Status: Complete. Annual meeting was held July 15, 2015. Meeting notes have been placed in the Administrative Record at this location:

<http://pdw.hanford.gov/arpir/index.cfm/viewDoc?accession=0080444H>

M-045-59, Control surface water infiltration pathways as needed to control or significantly reduce the likelihood of migration of subsurface contamination to groundwater at the SST Waste Management Areas (WMA) (pending the Corrective Measures Study report, Milestone M-45-58, and implementation of other interim corrective measures), Due: To be determined, Status: On schedule.

M-045-61A, Submit to Ecology for review and approval as an Agreement primary document, document review process, a Phase 2 Corrective Measures Study, and Revision 0 update to the RFI Report for WMA-C), Due: December 31, 2016, Status: On Schedule. The RPP-RPT-58339, *Phase 2 RCRA Facility Investigation Report Draft A* for Waste Management Area C (WMA-C), was transmitted to Ecology on December 23, 2014, via letter 14-TF-0131. This milestone was created by *Hanford Federal Facility Agreement and Consent Order* (HFFACO) change package M-45-14-03, signed October 1, 2014.

M-045-62, Submit to Ecology for review and approval as an agreement primary document a Phase 2 Corrective Measures Study Implementation Plan for WMA-C, Due: Six months after the approval of the corrective measures study (CMS) submitted under milestone M-045-61A. Status: On schedule. TPA change control form M-45-15-02 approved on April 14, 2015.

M-045-82, Submit complete permit mod requests for Tiers 1, 2, and 3 of the SST, Due: September 30, 2015, Status: In dispute. Please see issues.

M-045-83, Complete the closure of WMA-C, Due: June 30, 2019, Status: To be missed. Please see issues.

M-045-84, Complete negotiations of TPA interim milestones for closure of second WMA, Due: January 31, 2017, Status: At risk.

M-045-85, Complete negotiations of TPA interim milestones for closure of remaining WMAs, Due: January 31, 2022, Status: On schedule.

M-045-92 (N, O, P, Q, R) Complete Installation of Four (4) Additional Interim Barriers, Due: October 31, 2017, Status: In dispute. Please see issues.

Significant Past Accomplishments: None.

Significant Planned Activities in the Next Six Months:

- Continue data collection for T Farm and TY Farm interim surface barrier monitoring and develop the annual interim barrier monitoring report for 2015.
- Complete TPA/Resource Conservation and Recovery Act (RCRA) Tier 3 closure plan templates for C-200 Tanks
- Finalize/Issue for IDF PA summary analysis.
- Complete the waste management area (WMA) C Appendix I PA

Issues:

- **M-045-82, Submit complete permit mod requests for Tiers 1, 2, and 3 of the SST**
 - Change Control Form M-45-15-03 was submitted by ORP via letter 15-TF-0065, “The U.S. Department of Energy, Office of River Protection Transmittal of Hanford Federal Facility Agreement and Consent Order Change Control Form M-45-15-03 to Modify Milestone M-045-82 for Approval,” to Ecology for approval on June 30, 2015.
 - Ecology disapproved M-45-15-03 via letter 15-NWP-128, “Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Change Control Form, Change Number M-45-15-03, Dated June 25, 2015,” on July 14, 2015.
 - ORP initiated dispute resolution via letter 15-TF-0069, “Initiation of Dispute Resolution Regarding Disapproval of Hanford Federal Facility Agreement and Consent Order Change Control Form M-45-15-03,” on July 16, 2015.
 - ORP submitted a closure schedule to Ecology on January 13, 2016.
 - This dispute has been extended to May 28, 2016 via letter 16-TF-0035. “Extension at the Project Manager Level for the Hanford Federal Facility Agreement and Consent Order Dispute Regarding Disapproval of Change Control Form M-45-15-03.”
- **M-045-92 (N, O, P, Q, R), Complete Installation of Four Additional Interim Barriers**
 - (N) Construct SX interim surface barriers (ISB) 1 and 2 by October 31, 2015
 - (O) Design ISB 3 by June 30, 2015
 - (P) Construct ISB 3 by October 31, 2016
 - (Q) Design ISB 4 by June 30, 2016
 - (R) Construct ISB 4 by October 31, 2017
 - Change control form M-45-15-01 was submitted by ORP via letter 15-TF-0027, “Transmittal for Approval of the Hanford Federal Facility Agreement and Consent Order Change Control Form M-45-15-01 to Modify Milestone M-045-92 Due Dates,” to Ecology for approval on March 31, 2015.
 - Ecology disapproved M-45-15-01 via letter 15-NWP-075, “Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Change Control Form, Change Number M-045-15-01, dated 03/26/15,” on April 17, 2015.

- ORP initiated dispute resolution via letter 15-TF-0042, "Initiation of Dispute Resolution Regarding Disapproval of Hanford Federal Facility Agreement and Consent Order Change Control Form M-45-15-01," on April 20, 2015.
- ORP elevated this matter to the Interagency Management Integration Team (IAMIT) for resolution via submission of a statement of dispute on February 16, 2016 (16-TF-0016, "Statement of Dispute Regarding Disapproval of Hanford Federal Facility Agreement and Consent Order Change Control Form M-45-15-01").
- ORP and Ecology have extended the deadline for resolution of the M-45-15-01 dispute at the IAMIT level the next regularly-scheduled IAMIT meeting (March 17, 2016) following the entry of a final order modifying the Consent Decree in State of Washington vs United States. Department of Energy, No. 08-5085-RMP.
- In accordance with Decision/Determination/Action Assignment Number 2016-002: The IAMIT has agreed that the dispute on change control form M-45-15-01 is extended at the IAMIT level until May 20, 2016.

Single-Shell Tank Retrieval Program

M-045-70, Complete waste retrieval from all remaining SSTs, Due: December 31, 2040,
Status: On schedule.

M-045-86, Submit retrieval data report (RDR) to Ecology for 19 tanks retrieved, Due: To be determined (12 months after retrieval certification), Status: On schedule.

- M-045-86I: RDR for C-101 was due September 24, 2015, completed on September 24, 2015 with letter 15-TF-0099, "The U.S. Department of Energy, Office of River Protection Submits the Retrieval Data Report for Tank 241-C-101."
- M-045-86C: RDR for C-104 was due March 21, 2014, completed on February 18, 2014 with letter 14-TF-0013, "The U.S. Department of Energy, Office of River Protection Submits the Retrieval Data Report for Tank 241-C-104."
- M-45-86E: RDR for C-107 was due July 28, 2015, completed on September 15, 2015 with letter 15-TF-0086, "The U.S. Department of Energy, Office of River Protection Submits the Retrieval Data Report for Tank 241-C-107."
- M-045-86F: RDR for C-108 was due May 1, 2014, completed on November 27, 2013 with letter 13-TF-0120, "Submittal of Retrieval Data Report for Single-Shell Tank 241-C-108, RPP-RPT-55896, Revision 1."
- M-045-86G: RDR for C-109 was due June 4, 2014, completed on March 13, 2014 with letter 14-TF-0020, "The U.S. Department of Energy, Office of River Protection Submits the Retrieval Data Report for Tank 241-C-109."
- M-045-86H: RDR for C-110 was due January 29, 2015, completed on August 6, 2014 with letter 14-TF-0086, "The U.S. Department of Energy, Office of River Protection Submits the Retrieval Data Report for Tank 241-C-110."
- M-045-86K: RDR for C-112 was due September 30, 2015, completed on September 30, 2015 with letter 15-TF-0098, "The U.S. Department of Energy, Office of River Protection Submits the Retrieval Data Report for Tank 241-C-112."

Significant Past Accomplishments:

- Washington State Department of Ecology (Ecology) approved practicability evaluation request to forego a third retrieval technology in Tank 241-C-102.
- Completed Tank 241-C-102 Retrieval Completion Certification.
- Completed post retrieval samples of C-102.
- Retrieved waste from Tank 241-C-105 utilizing the Mobile Arm Retrieval System – Vacuum (MARS-V) and high-pressure water to a remaining volume of 67,300 gallons.
- Obtained Tank 241-C-105 in-process sample.
- Initiate planned equipment removal of the Tank C-105 MARS-V, to ready tank for modification to modified sluicing system.

- Completed isolation of legacy duct ventilation lines at Tank 241-AX-101, Tank 241-AX-102, Tank 241-AX-103 and Tank 241-AX-104.
- Completed Tank 241-AX-102 cover block removal and initiated pit cleanout of Tank AX-102, 02A pit.
- Completed three retrieval technologies at Tank 241-C-111.

Significant Planned Activities in the Next Six Months:

- Installation of the modified sluicing system using ERSS at Tank 241-C-105
- Complete A/AX infrastructure (water and utilities) design – fiscal year (FY) 2015 Phase 4A and Phase 5.
- Complete Tank 241-AX-102 and 241-AX-104 ERSS procurement.
- Complete Tank 241-AX-102 above tank equipment removal from pits.
- Complete AX Farm field work for tower, stack extension, and platform installation.
- Complete AX-2707 fencing and gate upgrades
- Complete AX ventilation installation, testing and startup at portable exhauster (POR) 126.
- Complete Building AX-2707 and Building AX-80 removal and disposal.

Issues: None.

Tank Waste Retrieval Work Plan Status

| Tank | TWRWP | Expected Revisions | First Retrieval Technology | Second Technology | Third Technology |
|-------|-------------------|--------------------|-----------------------------|---|--|
| C-101 | RPP-22520, Rev. 8 | Complete | Modified Sluicing with ERSS | High-Pressure Water deployed with the ERSS | - |
| C-102 | RPP-22393, Rev. 7 | Complete | Modified Sluicing with ERSS | High-Pressure Water deployed with the ERSS | - |
| C-104 | RPP-22393, Rev. 7 | Complete | Modified Sluicing | Chemical Retrieval Process complete per 13-TF-0018 | - |
| C-105 | RPP-22520, Rev. 8 | Third Technology | MARS-V | MARS-V-High Pressure Water Spray | TBD |
| C-107 | RPP-22393, Rev. 7 | Complete | MARS-S | MARS-S -High Pressure Water Spray | Water Dissolution |
| C-108 | RPP-22393, Rev. 7 | Complete | Modified Sluicing | Chemical Retrieval Process complete per 13-TF-0025 | - |
| C-109 | RPP-21895, Rev. 5 | Complete | Modified Sluicing | Chemical Retrieval Process complete per 13-TF-0037 | - |
| C-110 | RPP-33116, Rev. 3 | Complete | Modified Sluicing | Mechanical Waste Conditioning with an In-Tank Vehicle | High Pressure Water |
| C-111 | RPP-37739, Rev. 2 | Complete | Modified Sluicing | High pressure water using the ERSS | Chemical Dissolution Process with ERSS |
| C-112 | RPP-22393, Rev. 7 | Complete | Modified Sluicing | Chemical Retrieval Process | - |

ERSS = Extended Reach Sluicing System
MARS = Mobile Arm Retrieval System
S = sluicing

TBD = To Be Determined
TWRWP = Tank Waste Retrieval Work Plan
V = vacuum

Significant Accomplishments: None.

Significant Planned Activities in the Next Six Months:

- Finalize AX Farm tank waste retrieval work plans.
- Modify RPP-22520, 241-C-101, and 241-C-105, Tanks Waste Retrieval Work Plan, (C-105 TWRWP) to include a third technology for C-105 retrieval

Issues: None.

Tank in Appendix H, "Status - Single Shell Waste Retrieval Criteria"

Tank 241-C-106

Significant Past Accomplishments: None.

Significant Planned Activities in the Next Six Months:

- Continue U.S. Nuclear Regulatory Commission (NRC) review of the C-106 exception request. A request for additional information was received from the NRC in February 2009.

Issues:

- It has been discussed with the NRC that much of the additional information requested is dependent upon development of C Farm residual waste PA and, therefore, cannot be provided until the PA is published.

Tank Retrievals with Individual Milestones

Tank 241-A-103

M-045-15, Completion of Tank A-103 SST Waste Retrieval, Due: September 30, 2022, Status: On schedule. Change package M-45-11-04 replaced Tank S-102 with Tank A-103 and changed the milestone completion date for M-045-15 to September 30, 2022.

M-045-15A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I, Due: September 30, 2022, Status: On schedule. Updated with Tank A-103 and due date of September 30, 2022, per change package M-45-11-04.

M-045-15D, Embedded Milestone, if appropriate, DOE will request an exception to waste retrieval criteria pursuant to Agreement Appendix H, Due: September 30, 2022, Status: On schedule. Updated with Tank A-103 and due date of September 30, 2022, per change package M-45-11-04.

Significant Past Accomplishments:

- Change package M-45-11-04 was signed by ORP and Ecology on April 19, 2011.

No significant planned activities in the next six months and no issues for Tank 241-A-103.

Tank 241-S-112

M-045-13, Interim Completion of Tank S-112 SST Waste Retrieval and Closure Demonstration Project, Due: To be determined (in accordance with M-045-84 or M-045-85), Status: On schedule.

M-045-13E, Complete Negotiations for Interim Milestones for Closure of S-112, Due: To be determined, Status: On schedule as part of M-045-84 or M-045-85.

Significant Past Accomplishments:

- Ecology letter of January 7, 2008, concurred with ORP that retrieval of Tank S-112 is complete.

No significant planned activities in the next six months and no issues for Tank 241-S-112.